

IE-S1DS2VE0150T01T01-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**SPElink®**

Single pair Ethernet is a technology that only requires one pair of wires to transmit data and power. The resulting benefits will make SPE the preferred network at the field level and beyond.

Advantages of Single Pair Ethernet

- Consistent: Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- Future-proof: key technology for Industry 4.0 and IIoT
- Flexible: ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- Innovative: lighter, less space required, and reduced installation effort

General ordering data

| | |
|------------|--|
| Version | Patch cable, SPE plug (IEC 63171-2) - IP20 socket contact straight, SPE plug (IEC 63171-2) - IP20 socket contact straight, T1-B, PVC, 15 m |
| Order No. | 2725850150 |
| Type | IE-S1DS2VE0150T01T01-E |
| GTIN (EAN) | 4064675364658 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|-------|-----------------|--------------|
| Length | 15 m | Length (inches) | 590.551 inch |
| Net weight | 200 g | | |

Temperatures

| | |
|-----------------------|----------------|
| Operating temperature | -40 °C...80 °C |
|-----------------------|----------------|

Electrical properties

| | | | |
|--|-----------------------------------|---------------------------------------|-----------|
| Dielectric strength, contact / contact | 1000 V DC | Dielectric strength, contact / shield | 2250 V DC |
| PoE / PoE+ | PoDL acc. to IEEE 802.3bu / cg | | |

Standards

| | |
|--------------------|-------------|
| Connector standard | IEC 63171-2 |
|--------------------|-------------|

Cable structure

| | | | |
|-----------------------|--------------|----------------------------|---|
| Colour coding | white / blue | Complete shielding | Shielding braid made from copper wiring |
| Cross-section | 2*AWG 22 | Insulation | PE |
| Insulation diameter 2 | 1.65 mm | Material sheath | PVC |
| Number of wires | 2 | Overlap of shielding braid | 80 % |
| Sheath diameter, max. | 5.3 mm | Sheath diameter, min. | 4.9 mm |
| Sheathing colour | black | Shielding | STP |
| Strands | 7 | | |

Electrical properties of cable

| | | | |
|--------------------------|----------------------------|-----------------------------------|----------------|
| Capacity at 800 Hz | 1.6 nF/km | Category | T1-B |
| Characteristic impedance | 100 ± 15 Ω at 20 MHz | Coupling attenuation 1 to 600 MHz | Type I |
| Rated current | 3.5 A | Rated voltage (DC) | 60 V |
| Resistance differential | 2 % | Test voltage: wire-wire-shield | 1 kV DC, 1 min |
| Transmission rate | 10/100 MBit/s, 1000 MBit/s | | |

Mechanical and material properties of cable

| | | | |
|-------------------------------|-------|--------------------|--|
| Bending radius | 20 mm | Colour | black |
| Halogen | Yes | Resistance to oils | IRM 902/903 oil resistance test at (70°Cx4h) |
| Resistance to spread of flame | FT1 | UV-resistant | Complies with UL 1581 Sec. 1200 |

Plug

| | | | |
|-----------|---|------------|---|
| Plug left | SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded | Plug right | SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded |
|-----------|---|------------|---|

Plug, left

| | |
|-----------|---|
| Plug left | SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded |
|-----------|---|

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Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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www.weidmueller.com**Technical data****Plug, right**

| | | |
|-----------------------|------------|---|
| Housing main material | Plug right | SPE, IP20, female contact, straight, plug, Plastic, IEC 63171-2, shielded |
| Elastollan | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002599 | ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 | ETIM 9.0 | EC002599 |
| ECLASS 9.0 | 27-06-03-08 | ECLASS 9.1 | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-08 | ECLASS 11.0 | 27-06-03-08 |
| ECLASS 12.0 | 27-06-03-08 | ECLASS 13.0 | 27-06-03-08 |

Approvals

Approvals



| | |
|-------------------------|------------|
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E316369 |

Downloads

| | |
|------------|--|
| Catalogues | Catalogues in PDF-format |
|------------|--|

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Drawings

Detailed drawing



Dimensional drawing

